

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address TAP ROCK OPERATING, LLC 602 PARK POINT DRIVE, SUITE 200 GOLDEN, CO 80401		² OGRID Number 372043	
		³ Reason for Filing Code/ Effective Date RT	
⁴ API Number 30 - 0 25-46623	⁵ Pool Name TRIPLE X, BONE SPRING, WEST		⁶ Pool Code 96674
⁷ Property Code 325171	⁸ Property Name ZEUS STATE		⁹ Well Number 144H

II. ¹⁰ Surface Location

UI or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
P	09	24S	33E		827	SOUTH	136	EAST	LEA

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	09	24S	33E		19	NORTH	810	EAST	LEA
¹² Lse Code S	¹³ Producing Method Code F		¹⁴ Gas Connection Date		¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
214754	ENLINK MIDSTREAM OPERATING,LP 1722 ROUTH ST. SUITE 1300 DALLAS, TX 75201	O
371960	LUCID ENERGY GROUP 3100 MCKINNON ST #800 DALLAS, TX 75201	G

IV. Well Completion Data

²¹ Spud Date 01/25/20	²² Ready Date 3/10/2020	²³ TD 15551'	²⁴ PBTD 15486'	²⁵ Perforations 10721' - 15388'	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size	²⁹ Depth Set		³⁰ Sacks Cement
17 1/2"		13 3/8"	1301'		1100
12 1/4"		9 5/8"	5313'		1380
8 3/4"		5 1/2"	15531'		2144

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: Ramsey			OIL CONSERVATION DIVISION		
Printed name: Bill Ramsey			Approved by: [Signature]		
Title: Regulatory Analyst			Title:		
E-mail Address: bramsey@taprk.com			Approval Date: 04/09/2020		
Date: 3/18/2020		Phone: 720-360-4028			

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT
AS-DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-46623		² Pool Code 96674		³ Pool Name TRIPLE X, BONE SPRING, WEST	
⁴ Property Code 325171		⁵ Property Name ZEUS STATE			⁶ Well Number 144H
⁷ OGRID No. 372043		⁸ Operator Name TAP ROCK OPERATING, LLC.			⁹ Elevation 3615'

¹⁰Surface Location

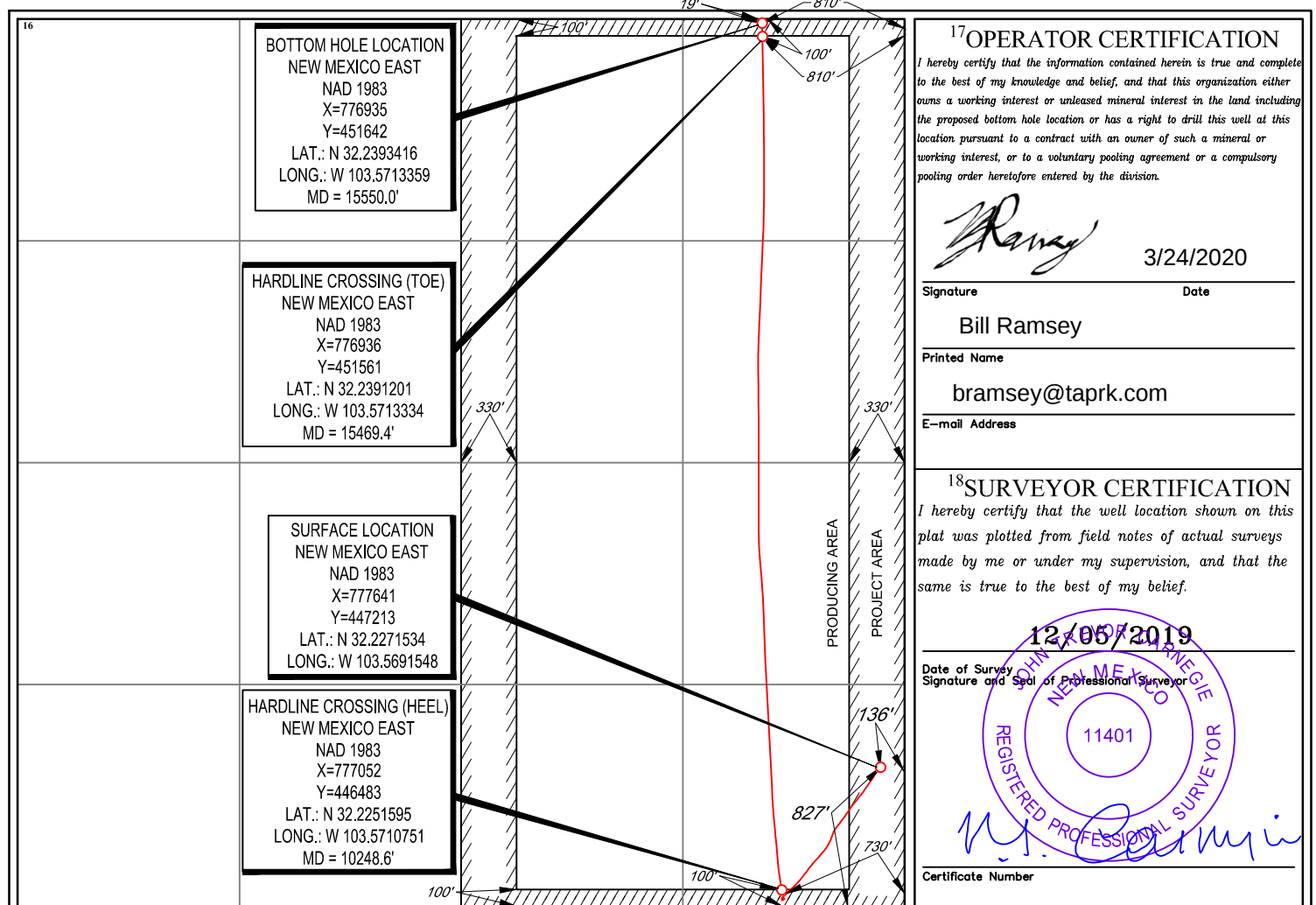
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	9	24-S	33-E	-	827'	SOUTH	136'	EAST	LEA

¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	9	24-S	33-E	-	19'	NORTH	810'	EAST	LEA

¹² Dedicated Acres 320.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
---	-------------------------------	----------------------------------	-------------------------

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.





Tap Rock Resources, LLC

**Lea County, NM (NAD 83 NME)
(Zeus State) Sec-9_T24-S_R-33-E
Zeus State #144H**

OWB

Design: AWB

Standard Survey Report

07 February, 2020





Operator: Tap Rock Resources LLC
Well Name: Zeus State #144H
County: Lea
State: New Mexico
Rig Name: H&P 376
API: 30-015-46623

Intrepid Directional Drilling Specialists certifies that the surveys performed on the above referenced well are true and correct MWD surveys, data provided as follows:

Surveyor: Intrepid Directional Drilling Specialists
Survey Depths: 180' MD – 15,486' MD
Projection to Bit: 15,551' MD
Dates Performed: 01/25/2020 – 02/06/2020
Type of Survey: MWD

Sincerely,

A handwritten signature in blue ink, appearing to read "Jim", with a stylized flourish at the end.

James Burleson
Vice President of MWD Operations
Intrepid Directional Drilling Specialists



Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Zeus State #144H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3641.0usft (H&P 245)
Site:	(Zeus State) Sec-9_T24-S_R-33-E	MD Reference:	KB @ 3641.0usft (H&P 245)
Well:	Zeus State #144H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Project	Lea County, NM (NAD 83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	(Zeus State) Sec-9_T24-S_R-33-E		
Site Position:		Northing:	447,193.00 usft
From:	Map	Easting:	777,416.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 13' 37.575 N
		Longitude:	103° 34' 11.577 W
		Grid Convergence:	0.41 °

Well	Zeus State #144H		
Well Position	+N/-S	0.0 usft	Northing: 447,213.00 usft
	+E/-W	0.0 usft	Easting: 777,641.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 13' 37.757 N
		Longitude:	103° 34' 8.956 W
		Ground Level:	3,615.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2020/01/24	6.67	60.03	47,670.95096552

Design	AWB				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	359.59	

Survey Program	Date	2020/02/07			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
180.0	15,551.0	Intrepid MWD (OWB)	MWD	OWSG MWD - Standard	

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
180.0	0.26	307.72	180.0	0.2	-0.3	0.3	0.14	0.14	0.00
241.0	0.13	199.62	241.0	0.3	-0.5	0.3	0.53	-0.21	-177.21
329.0	0.62	251.65	329.0	0.0	-0.9	0.0	0.62	0.56	59.13
420.0	0.62	219.13	420.0	-0.5	-1.7	-0.5	0.38	0.00	-35.74
514.0	0.44	207.71	514.0	-1.2	-2.2	-1.2	0.22	-0.19	-12.15
606.0	0.48	253.23	606.0	-1.6	-2.7	-1.6	0.39	0.04	49.48
698.0	0.66	215.35	698.0	-2.2	-3.4	-2.2	0.44	0.20	-41.17
790.0	0.70	230.21	790.0	-3.0	-4.2	-3.0	0.20	0.04	16.15
883.0	0.40	236.89	883.0	-3.5	-4.9	-3.5	0.33	-0.32	7.18

Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Zeus State #144H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3641.0usft (H&P 245)
Site:	(Zeus State) Sec-9_T24-S_R-33-E	MD Reference:	KB @ 3641.0usft (H&P 245)
Well:	Zeus State #144H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
975.0	1.05	217.46	975.0	-4.4	-5.6	-4.3	0.75	0.71	-21.12
1,067.0	1.23	213.86	1,066.9	-5.9	-6.7	-5.8	0.21	0.20	-3.91
1,160.0	0.84	217.37	1,159.9	-7.2	-7.7	-7.2	0.42	-0.42	3.77
1,246.0	0.62	246.90	1,245.9	-7.9	-8.5	-7.9	0.50	-0.26	34.34
1,275.1	0.56	253.12	1,275.0	-8.0	-8.8	-8.0	0.30	-0.21	21.39
Rustler Anhydrite									
1,434.0	0.44	309.66	1,433.9	-7.9	-10.0	-7.8	0.30	-0.07	35.58
1,528.0	1.54	241.10	1,527.9	-8.2	-11.4	-8.2	1.53	1.17	-72.94
1,623.0	4.88	219.57	1,622.7	-12.0	-15.1	-11.9	3.68	3.52	-22.66
1,717.0	8.92	213.68	1,716.0	-21.1	-21.6	-21.0	4.36	4.30	-6.27
1,786.9	10.18	211.66	1,785.0	-30.9	-27.9	-30.7	1.87	1.81	-2.89
Top Salt									
1,812.0	10.64	211.05	1,809.7	-34.8	-30.3	-34.5	1.87	1.82	-2.43
1,907.0	10.42	212.54	1,903.1	-49.5	-39.4	-49.2	0.37	-0.23	1.57
2,001.0	10.46	214.74	1,995.5	-63.7	-48.8	-63.3	0.43	0.04	2.34
2,096.0	10.68	214.82	2,088.9	-78.0	-58.8	-77.6	0.23	0.23	0.08
2,190.0	10.77	215.44	2,181.2	-92.3	-68.8	-91.8	0.16	0.10	0.66
2,285.0	10.81	215.53	2,274.6	-106.8	-79.2	-106.2	0.05	0.04	0.09
2,380.0	9.58	212.89	2,368.1	-120.7	-88.6	-120.0	1.38	-1.29	-2.78
2,474.0	8.97	215.44	2,460.8	-133.2	-97.1	-132.5	0.78	-0.65	2.71
2,569.0	8.62	217.37	2,554.7	-144.9	-105.7	-144.2	0.48	-0.37	2.03
2,664.0	8.04	218.34	2,648.7	-155.8	-114.2	-155.0	0.63	-0.61	1.02
2,758.0	7.65	219.04	2,741.8	-165.8	-122.2	-164.9	0.43	-0.41	0.74
2,853.0	7.16	217.46	2,836.0	-175.4	-129.8	-174.5	0.56	-0.52	-1.66
2,948.0	7.69	218.08	2,930.3	-185.1	-137.3	-184.1	0.56	0.56	0.65
3,042.0	9.01	216.58	3,023.3	-196.0	-145.6	-194.9	1.42	1.40	-1.60
3,137.0	8.40	219.48	3,117.2	-207.3	-154.4	-206.2	0.79	-0.64	3.05
3,232.0	7.74	220.10	3,211.2	-217.6	-163.0	-216.4	0.70	-0.69	0.65
3,326.0	8.44	216.14	3,304.3	-228.0	-171.1	-226.7	0.95	0.74	-4.21
3,421.0	10.07	214.91	3,398.0	-240.4	-180.0	-239.1	1.73	1.72	-1.29
3,516.0	9.27	214.21	3,491.7	-253.5	-189.0	-252.2	0.85	-0.84	-0.74
3,611.0	8.44	214.82	3,585.6	-265.6	-197.3	-264.2	0.88	-0.87	0.64
3,705.0	7.65	214.12	3,678.6	-276.4	-204.8	-275.0	0.85	-0.84	-0.74
3,800.0	8.62	214.47	3,772.7	-287.5	-212.3	-286.0	1.02	1.02	0.37
3,895.0	10.59	216.67	3,866.3	-300.4	-221.6	-298.8	2.11	2.07	2.32
3,990.0	10.51	216.85	3,959.7	-314.4	-232.0	-312.7	0.09	-0.08	0.19
4,084.0	10.15	218.43	4,052.2	-327.7	-242.3	-326.0	0.49	-0.38	1.68
4,179.0	9.23	218.08	4,145.9	-340.3	-252.2	-338.4	0.97	-0.97	-0.37
4,274.0	8.44	217.02	4,239.7	-351.8	-261.1	-349.9	0.85	-0.83	-1.12
4,368.0	7.56	214.39	4,332.8	-362.4	-268.7	-360.5	1.01	-0.94	-2.80
4,463.0	6.33	209.46	4,427.1	-372.1	-274.8	-370.2	1.44	-1.29	-5.19
4,557.0	5.98	201.99	4,520.6	-381.2	-279.2	-379.2	0.93	-0.37	-7.95
4,652.0	5.23	201.47	4,615.1	-389.8	-282.6	-387.8	0.79	-0.79	-0.55
4,746.0	5.36	201.38	4,708.7	-397.9	-285.8	-395.8	0.14	0.14	-0.10

Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Zeus State #144H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3641.0usft (H&P 245)
Site:	(Zeus State) Sec-9_T24-S_R-33-E	MD Reference:	KB @ 3641.0usft (H&P 245)
Well:	Zeus State #144H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,841.0	7.47	204.80	4,803.1	-407.6	-290.0	-405.5	2.26	2.22	3.60
4,936.0	7.08	198.39	4,897.4	-418.8	-294.5	-416.7	0.95	-0.41	-6.75
5,019.3	7.58	201.30	4,980.0	-428.8	-298.1	-426.6	0.75	0.61	3.49
Base Salt									
5,030.0	7.65	201.64	4,990.6	-430.1	-298.6	-428.0	0.75	0.62	3.23
5,125.0	8.26	210.17	5,084.7	-441.9	-304.4	-439.7	1.40	0.64	8.98
5,219.0	6.86	207.79	5,177.8	-452.7	-310.4	-450.5	1.53	-1.49	-2.53
5,256.0	6.29	207.18	5,214.6	-456.4	-312.3	-454.2	1.55	-1.54	-1.65
5,271.5	6.27	207.24	5,230.0	-458.0	-313.1	-455.7	0.16	-0.15	0.40
Delaware Mountain Gp									
5,276.5	6.26	207.26	5,235.0	-458.4	-313.4	-456.2	0.16	-0.15	0.41
Lamar									
5,301.7	6.22	207.37	5,260.0	-460.9	-314.6	-458.6	0.16	-0.15	0.41
Bell Canyon									
5,321.8	6.19	207.45	5,280.0	-462.8	-315.6	-460.5	0.16	-0.15	0.41
Ramsey Sand									
5,402.0	6.07	207.79	5,359.8	-470.4	-319.6	-468.1	0.16	-0.15	0.42
5,497.0	8.57	216.67	5,454.0	-480.5	-326.1	-478.2	2.88	2.63	9.35
5,592.0	11.12	219.04	5,547.6	-493.3	-336.1	-490.9	2.72	2.68	2.49
5,686.0	11.74	221.50	5,639.7	-507.5	-348.2	-505.0	0.84	0.66	2.62
5,781.0	11.78	220.45	5,732.7	-522.1	-360.9	-519.5	0.23	0.04	-1.11
5,875.0	11.87	221.68	5,824.7	-536.7	-373.5	-534.0	0.28	0.10	1.31
5,970.0	12.31	222.82	5,917.6	-551.4	-386.9	-548.6	0.53	0.46	1.20
6,065.0	11.52	220.63	6,010.6	-566.0	-400.0	-563.1	0.96	-0.83	-2.31
6,159.0	10.99	218.08	6,102.8	-580.2	-411.6	-577.2	0.77	-0.56	-2.71
6,254.0	10.55	218.78	6,196.1	-594.1	-422.7	-591.1	0.48	-0.46	0.74
6,258.0	10.55	218.68	6,200.0	-594.7	-423.1	-591.6	0.46	0.09	-2.46
Cherry Canyon									
6,348.0	10.64	216.49	6,288.5	-607.8	-433.2	-604.7	0.46	0.10	-2.44
6,443.0	10.46	216.85	6,381.9	-621.7	-443.6	-618.5	0.20	-0.19	0.38
6,538.0	10.59	219.39	6,475.3	-635.4	-454.3	-632.1	0.51	0.14	2.67
6,633.0	10.81	218.60	6,568.6	-649.1	-465.4	-645.7	0.28	0.23	-0.83
6,727.0	11.25	218.08	6,660.9	-663.2	-476.6	-659.8	0.48	0.47	-0.55
6,822.0	11.38	218.87	6,754.0	-677.8	-488.2	-674.3	0.21	0.14	0.83
6,917.0	9.80	225.02	6,847.4	-690.8	-499.8	-687.2	2.04	-1.66	6.47
7,011.0	9.19	227.13	6,940.1	-701.6	-510.9	-697.9	0.75	-0.65	2.24
7,106.0	8.88	225.11	7,034.0	-711.9	-521.7	-708.1	0.47	-0.33	-2.13
7,201.0	8.92	224.84	7,127.8	-722.3	-532.1	-718.5	0.06	0.04	-0.28
7,295.0	9.01	228.01	7,220.7	-732.4	-542.7	-728.5	0.53	0.10	3.37
7,390.0	7.87	227.30	7,314.6	-741.8	-553.0	-737.8	1.20	-1.20	-0.75
7,484.0	7.56	225.72	7,407.8	-750.5	-562.1	-746.4	0.40	-0.33	-1.68
7,579.0	6.81	222.30	7,502.0	-759.0	-570.4	-754.9	0.91	-0.79	-3.60
7,673.0	6.46	227.57	7,595.4	-766.7	-578.1	-762.5	0.75	-0.37	5.61
7,768.0	4.66	229.33	7,690.0	-772.8	-584.9	-768.6	1.90	-1.89	1.85

Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Zeus State #144H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3641.0usft (H&P 245)
Site:	(Zeus State) Sec-9_T24-S_R-33-E	MD Reference:	KB @ 3641.0usft (H&P 245)
Well:	Zeus State #144H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,788.1	4.20	228.23	7,710.0	-773.8	-586.1	-769.6	2.33	-2.29	-5.46
Brushy Canyon									
7,863.0	2.51	220.63	7,784.8	-776.9	-589.2	-772.6	2.33	-2.26	-10.15
7,957.0	1.27	181.16	7,878.7	-779.5	-590.6	-775.2	1.84	-1.32	-41.99
8,052.0	1.10	178.26	7,973.7	-781.5	-590.6	-777.2	0.19	-0.18	-3.05
8,147.0	1.71	184.94	8,068.7	-783.8	-590.7	-779.5	0.66	0.64	7.03
8,242.0	1.63	176.59	8,163.6	-786.5	-590.7	-782.3	0.27	-0.08	-8.79
8,336.0	0.97	116.39	8,257.6	-788.2	-589.9	-784.0	1.51	-0.70	-64.04
8,431.0	1.41	81.67	8,352.6	-788.4	-588.0	-784.2	0.87	0.46	-36.55
8,526.0	0.75	91.95	8,447.6	-788.3	-586.3	-784.0	0.72	-0.69	10.82
8,620.0	0.79	122.45	8,541.6	-788.6	-585.1	-784.4	0.43	0.04	32.45
8,715.0	1.14	75.34	8,636.5	-788.7	-583.6	-784.5	0.88	0.37	-49.59
8,810.0	1.80	43.35	8,731.5	-787.4	-581.7	-783.2	1.08	0.69	-33.67
8,904.0	1.23	38.25	8,825.5	-785.6	-580.0	-781.4	0.62	-0.61	-5.43
8,999.0	1.49	64.53	8,920.5	-784.2	-578.3	-780.1	0.70	0.27	27.66
9,094.0	1.41	48.80	9,015.4	-782.9	-576.3	-778.8	0.43	-0.08	-16.56
9,188.0	0.66	40.54	9,109.4	-781.7	-575.1	-777.6	0.81	-0.80	-8.79
9,198.6	0.63	40.63	9,120.0	-781.7	-575.0	-777.5	0.27	-0.27	0.82
Bone Spring Lime									
9,283.0	0.40	41.77	9,204.4	-781.1	-574.5	-777.0	0.27	-0.27	1.35
9,318.6	0.56	36.63	9,240.0	-780.9	-574.3	-776.7	0.47	0.46	-14.45
Upper Avalon									
9,378.0	0.84	32.54	9,299.4	-780.3	-573.9	-776.1	0.47	0.47	-6.88
9,472.0	0.62	44.23	9,393.4	-779.3	-573.2	-775.2	0.28	-0.23	12.44
9,567.0	0.35	294.54	9,488.4	-778.8	-573.1	-774.7	0.85	-0.28	-115.46
9,588.6	0.33	258.87	9,510.0	-778.8	-573.2	-774.7	0.97	-0.09	-165.10
Middle Avalon									
9,661.0	0.84	204.37	9,582.4	-779.3	-573.6	-775.2	0.97	0.70	-75.28
9,756.0	0.97	217.02	9,677.4	-780.6	-574.4	-776.5	0.25	0.14	13.32
9,850.0	0.84	218.96	9,771.4	-781.8	-575.3	-777.6	0.14	-0.14	2.06
9,945.0	1.67	287.25	9,866.3	-781.9	-577.1	-777.8	1.65	0.87	71.88
9,967.0	2.11	270.28	9,888.3	-781.8	-577.8	-777.7	3.22	2.00	-77.14
9,993.7	2.38	307.90	9,915.0	-781.5	-578.7	-777.3	5.51	1.02	140.98
Lower Avalon									
10,071.0	5.80	347.98	9,992.1	-776.7	-580.8	-772.5	5.51	4.42	51.84
10,166.0	16.66	352.64	10,085.2	-758.4	-583.6	-754.2	11.46	11.43	4.91
10,246.0	24.43	348.23	10,160.0	-730.8	-588.4	-726.6	9.90	9.71	-5.51
1st Bone Spring Sand									
10,247.9	24.62	348.16	10,161.8	-730.0	-588.6	-725.8	9.90	9.77	-3.80
FTP @ 10247.9'MD, 100'FSL & 730'FEL									
10,260.0	25.80	347.72	10,172.7	-725.0	-589.6	-720.7	9.90	9.78	-3.61
10,355.0	39.30	350.97	10,252.6	-674.8	-598.8	-670.5	14.32	14.21	3.42
10,450.0	48.66	352.90	10,320.9	-609.6	-608.0	-605.2	9.95	9.85	2.03
10,497.0	51.52	355.63	10,351.0	-573.7	-611.5	-569.3	7.54	6.09	5.81
10,544.0	55.34	355.89	10,379.0	-536.1	-614.3	-531.7	8.14	8.13	0.55

Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Zeus State #144H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3641.0usft (H&P 245)
Site:	(Zeus State) Sec-9_T24-S_R-33-E	MD Reference:	KB @ 3641.0usft (H&P 245)
Well:	Zeus State #144H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,591.0	60.04	355.10	10,404.2	-496.5	-617.5	-492.1	10.10	10.00	-1.68
10,639.0	61.67	353.87	10,427.5	-454.8	-621.5	-450.3	4.07	3.40	-2.56
10,686.0	64.35	353.69	10,448.9	-413.1	-626.0	-408.6	5.71	5.70	-0.38
10,734.0	66.07	354.04	10,469.0	-369.8	-630.7	-365.3	3.64	3.58	0.73
10,749.0	66.78	354.27	10,475.0	-356.1	-632.1	-351.6	4.92	4.72	1.54
2nd Bone Spring Carb									
10,828.0	70.51	355.45	10,503.7	-282.9	-638.7	-278.3	4.92	4.72	1.49
10,923.0	75.60	356.94	10,531.4	-192.2	-644.7	-187.6	5.56	5.36	1.57
11,017.0	81.32	358.00	10,550.2	-100.2	-648.7	-95.6	6.18	6.09	1.13
11,112.0	87.69	357.38	10,559.3	-5.8	-652.5	-1.1	6.74	6.71	-0.65
11,207.0	87.87	356.68	10,563.0	89.0	-657.5	93.7	0.76	0.19	-0.74
11,301.0	90.81	356.77	10,564.1	182.8	-662.8	187.6	3.13	3.13	0.10
11,396.0	92.31	357.30	10,561.5	277.7	-667.7	282.4	1.67	1.58	0.56
11,490.0	92.31	356.86	10,557.7	371.5	-672.5	376.3	0.47	0.00	-0.47
11,585.0	91.96	357.03	10,554.2	466.3	-677.6	471.1	0.41	-0.37	0.18
11,680.0	91.60	356.68	10,551.2	561.1	-682.8	565.9	0.53	-0.38	-0.37
11,775.0	91.56	356.50	10,548.6	655.9	-688.4	660.8	0.19	-0.04	-0.19
11,869.0	89.14	358.79	10,548.0	749.8	-692.3	754.7	3.54	-2.57	2.44
11,964.0	89.32	358.17	10,549.3	844.7	-694.8	849.7	0.68	0.19	-0.65
12,059.0	89.54	357.47	10,550.2	939.7	-698.4	944.6	0.77	0.23	-0.74
12,153.0	88.57	356.42	10,551.8	1,033.5	-703.4	1,038.5	1.52	-1.03	-1.12
12,248.0	88.66	355.27	10,554.1	1,128.2	-710.3	1,133.3	1.21	0.09	-1.21
12,343.0	88.97	354.75	10,556.1	1,222.8	-718.6	1,228.0	0.64	0.33	-0.55
12,437.0	90.15	357.47	10,556.8	1,316.6	-725.0	1,321.8	3.15	1.26	2.89
12,532.0	90.73	0.72	10,556.0	1,411.6	-726.5	1,416.7	3.47	0.61	3.42
12,627.0	90.33	359.76	10,555.2	1,506.6	-726.1	1,511.7	1.09	-0.42	-1.01
12,721.0	90.33	359.23	10,554.6	1,600.6	-726.9	1,605.7	0.56	0.00	-0.56
12,816.0	88.04	0.99	10,556.0	1,695.6	-726.7	1,700.7	3.04	-2.41	1.85
12,911.0	88.04	359.84	10,559.2	1,790.5	-726.0	1,795.6	1.21	0.00	-1.21
13,006.0	88.44	359.76	10,562.1	1,885.4	-726.4	1,890.6	0.43	0.42	-0.08
13,101.0	88.70	359.76	10,564.5	1,980.4	-726.8	1,985.6	0.27	0.27	0.00
13,195.0	89.23	359.67	10,566.2	2,074.4	-727.2	2,079.6	0.57	0.56	-0.10
13,290.0	89.01	359.84	10,567.7	2,169.4	-727.6	2,174.5	0.29	-0.23	0.18
13,384.0	89.36	359.40	10,569.0	2,263.4	-728.3	2,268.5	0.60	0.37	-0.47
13,479.0	90.15	358.79	10,569.4	2,358.4	-729.8	2,363.5	1.05	0.83	-0.64
13,574.0	90.07	0.63	10,569.2	2,453.4	-730.2	2,458.5	1.94	-0.08	1.94
13,668.0	89.98	2.92	10,569.2	2,547.3	-727.3	2,552.4	2.44	-0.10	2.44
13,763.0	88.31	2.30	10,570.6	2,642.2	-723.0	2,647.3	1.88	-1.76	-0.65
13,858.0	88.70	2.57	10,573.1	2,737.1	-719.0	2,742.1	0.50	0.41	0.28
13,952.0	89.10	2.30	10,574.9	2,831.0	-715.0	2,836.0	0.51	0.43	-0.29
14,047.0	88.84	2.39	10,576.6	2,925.9	-711.1	2,930.9	0.29	-0.27	0.09
14,141.0	88.88	2.57	10,578.5	3,019.8	-707.0	3,024.8	0.20	0.04	0.19
14,236.0	89.01	2.92	10,580.2	3,114.6	-702.5	3,119.6	0.39	0.14	0.37

Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Zeus State #144H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3641.0usft (H&P 245)
Site:	(Zeus State) Sec-9_T24-S_R-33-E	MD Reference:	KB @ 3641.0usft (H&P 245)
Well:	Zeus State #144H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,331.0	90.42	1.25	10,580.7	3,209.6	-699.0	3,214.5	2.30	1.48	-1.76
14,425.0	90.07	1.07	10,580.3	3,303.6	-697.1	3,308.5	0.42	-0.37	-0.19
14,520.0	90.81	1.16	10,579.6	3,398.5	-695.3	3,403.4	0.78	0.78	0.09
14,615.0	91.91	0.02	10,577.3	3,493.5	-694.3	3,498.4	1.67	1.16	-1.20
14,709.0	90.46	359.76	10,575.4	3,587.5	-694.5	3,592.4	1.57	-1.54	-0.28
14,804.0	88.88	359.58	10,575.9	3,682.5	-695.0	3,687.3	1.67	-1.66	-0.19
14,899.0	89.54	359.58	10,577.2	3,777.5	-695.7	3,782.3	0.69	0.69	0.00
14,993.0	90.51	358.97	10,577.2	3,871.4	-696.9	3,876.3	1.22	1.03	-0.65
15,088.0	88.26	359.40	10,578.2	3,966.4	-698.2	3,971.3	2.41	-2.37	0.45
15,183.0	87.74	359.23	10,581.5	4,061.4	-699.4	4,066.3	0.58	-0.55	-0.18
15,277.0	88.44	358.79	10,584.6	4,155.3	-701.0	4,160.2	0.88	0.74	-0.47
15,372.0	89.49	359.05	10,586.4	4,250.3	-702.8	4,255.2	1.14	1.11	0.27
15,467.0	89.67	358.88	10,587.1	4,345.2	-704.5	4,350.2	0.26	0.19	-0.18
15,470.0	89.72	358.91	10,587.1	4,348.2	-704.6	4,353.2	1.86	1.63	0.89
LTP @ 15470'MD, 100'FNL & 809.4'FEL									
15,486.0	89.98	359.05	10,587.1	4,364.2	-704.9	4,369.2	1.86	1.63	0.89
LAST SVY									
15,551.0	89.98	359.05	10,587.1	4,429.2	-705.9	4,434.2	0.00	0.00	0.00
Projection to TD @ 15551'MD, 19'FNL & 810.2'FEL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (Zeus State #144	0.00	0.00	10,560.0	-730.0	-684.0	446,483.00	776,957.00	32° 13' 30.581 N	103° 34' 16.979 W
- hit/miss target									
- Shape									
- Point									
- actual wellpath misses target center by 270.7usft at 10500.6usft MD (10353.3 TVD, -570.9 N, -611.8 E)									
LTP (Zeus State #144	0.00	0.00	10,575.0	4,348.0	-720.0	451,561.00	776,921.00	32° 14' 20.831 N	103° 34' 16.979 W
- hit/miss target									
- Shape									
- Point									
- actual wellpath misses target center by 19.6usft at 15470.0usft MD (10587.1 TVD, 4348.2 N, -704.6 E)									
PBHL (Zeus State #144	0.32	359.59	10,575.0	4,443.0	-721.0	451,656.00	776,920.00	32° 14' 21.772 N	103° 34' 16.982 W
- hit/miss target									
- Shape									
- Point									
- actual wellpath misses target center by 23.7usft at 15551.0usft MD (10587.1 TVD, 4429.2 N, -705.9 E)									
- Rectangle (sides W100.0 H5,173.0 D30.0)									

Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Zeus State #144H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3641.0usft (H&P 245)
Site:	(Zeus State) Sec-9_T24-S_R-33-E	MD Reference:	KB @ 3641.0usft (H&P 245)
Well:	Zeus State #144H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,275.1	1,275.0	Rustler Anhydrite			
1,786.9	1,785.0	Top Salt			
5,019.3	4,980.0	Base Salt			
5,271.5	5,230.0	Delaware Mountain Gp			
5,276.5	5,235.0	Lamar			
5,301.7	5,260.0	Bell Canyon			
5,321.8	5,280.0	Ramsey Sand			
6,258.0	6,200.0	Cherry Canyon			
7,788.1	7,710.0	Brushy Canyon			
9,198.6	9,120.0	Bone Spring Lime			
9,318.6	9,240.0	Upper Avalon			
9,588.6	9,510.0	Middle Avalon			
9,993.7	9,915.0	Lower Avalon			
10,246.0	10,160.0	1st Bone Spring Sand			
10,749.0	10,475.0	2nd Bone Spring Carb			

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,247.9	10,161.8	-730.0	-588.6	FTP @ 10247.9'MD, 100'FSL & 730'FEL
15,470.0	10,587.1	4,348.2	-704.6	LTP @ 15470'MD, 100'FNL & 809.4'FEL
15,486.0	10,587.1	4,364.2	-704.9	LAST SVY
15,551.0	10,587.1	4,429.2	-705.9	Projection to TD @ 15551'MD, 19'FNL & 810.2'FEL

Checked By: _____ Approved By: _____ Date: _____